

## I CLAIM:

1. A filter comprising:
  - an insertion seat including a box body at one side thereof and a plurality of electronic modules within the box body and the external side of the box body mounted to a ground terminal, and the electronic modules and the ground terminal formed an electronic loop of the filter, and the positive and negative terminal of the electronic loop being soldered to a positive conductive wire and a negative conductive wire; and
  - 10 a metallic housing having an opened cavity at one side for the mounting of the insertion seat and the bottom portion of the cavity being a terminal hole and a conductive wire hole, and the conductive wire hole being extended to form an isolation mount which functions as electro-magnetic wave isolation, and the external of the isolation mount being mounted with an insulated rubber mount, and one end of the positive conductive wire and the negative wire from the conductive wire hole via the isolation mount to the exterior, and the ground terminal passed through the terminal hole to the exterior.
- 15 2. The filter of claim 1, wherein the electronic modules includes a resistance, an electric induction coil and two Y capacitance.

3. The filter of claim 1, wherein the isolation mount is soldered to the metallic housing.
4. A method of fabrication of a filter comprising the steps of:
  - (a) soldering a resistance, an electric induction coil, two Y capacitance electronic components and a ground terminal to a box body at one side of an insertion seat and soldering one end of the positive terminal of a conductive wire and the negative terminal of the conductive wire to the electronic modules to form an electronic loop of the filter;
  - (b) preparing a metallic housing having a terminal hole and a conductive wire hole at the bottom section thereof;
  - (c) mounting in sequence an isolation mount with isolating magnetic wave function and a metallic housing onto a mold by soldering at the connection thereof;
  - (d) passing the terminal of the positive conductive wire and the negative conductive wire into the metallic housing via the conductive wire hole, and exposing to the exterior at the other end via the isolation mount, and inserting one side of the insertion seat to the metallic housing and exposing the ground terminal via the terminal hole to the exterior; and

- (e) mounting an insulation rubber mount onto the exterior of the isolation mount.
- 5. The method of claim 4, wherein in step (c), the mold includes a mold seat having a molding block and the molding block includes a molding pillar.
- 6. The method of claim 5, wherein in step (c), the connection between the isolation mount and the metallic housing including the steps of:
  - (c1) extending one end of the isolation mount to form a flat soldering section;
  - 10 (c2) mounting one end of the soldering section onto the molding pillar and the soldering section being soldered flat at the top section of the mold block;
  - (c3) inserting the other end of the isolating mount via the conductive wire hole so that the metallic housing is installed on the mold block; and
  - 15 (c4) soldering the isolating mount and the metallic housing at the connection thereof.
- 7. The method of claim 4, wherein in step (e), the terminal section of the isolation mount is rolled into thread like and exposed at the exterior of the insulated rubber mount.